

## RECORD OF PERFORMANCE QUALIFICATIONS DC

**INSTRUCTIONS** Record of Performance Qualifications shall be completed for enlisted personnel of the Coast Guard as outlined in the Enlisted Performance Qualifications Manual, COMDTINST M1414.8 (series). Personnel are required to demonstrate proficiency in all performance qualifications for higher pay grades. As proficiency in each performance qualification is demonstrated by actually performing the task listed, the DATE and INITIALS column shall be completed. Some enlisted performance qualifications include Supervisory Guidelines (SupGuide), which will assist in clarifying the intent and proper execution of the task that is to be performed. Personnel are reminded that, although demonstration of proficiency in new performance qualifications at or below their current pay grade is not required, they will be held responsible for those qualifications in future Service Wide Examinations. It is the member's responsibility to be proficient in all currently published performance qualifications, up to and including those of their present pay grade, for their specific rating.

**Note:** The reference material cited in qualifications noted with an asterisk (\*) has been duplicated in the correspondence courses. You are not required to purchase the commercial references cited in the qualifications marked with an asterisk. The required information for those particular qualifications can be found in the correspondence courses. All other reference material should be available through the U.S. Coast Guard Directives System Intranet site accessible at <http://cgweb.uscg.mil/g-c/g-ccs/g-cit/g-cim/directives/welcome.htm>, U.S. Coast Guard Directives System Internet site accessible at <http://www.uscg.mil/ccs/cit/cim/directives/welcome.htm>, Naval Engineering – Technical Information Management System web site accessible at <http://10.38.16.120:1088/cgi-bin/WebObjects/Tims>, DC RFMC web site accessible at [http://cgweb.comdt.uscg.mil/g-srf/DC\\_Home](http://cgweb.comdt.uscg.mil/g-srf/DC_Home), your unit, or from other government sources. A list of reference material (hyperlinks provided where available) is located at the end of this Tab.

**Always obey local codes and laws, follow manufacturers' operating instructions, and observe safety precautions.**

**This revision to the EPQs does not change any of the previous tasking. It only updates formatting, adds standards (references) and provides hyper-links to the standards (reference material). The information remains effective for present SWE cycle dates. If members have completed tasks on the previous edition of the EPQs, then signatures should be transferred for those completed tasks to this new edition.**

**RATING**

DAMAGE CONTROLMAN (Effective for the MAY 2004 Active Duty and Oct 2004 Reserve SWE)

**ABBREVIATION**

DC

**DATE COMPLETED ALL PERFORMANCE QUALIFICATIONS FOR RATE LEVEL**

**E-4**

**E-5**

**E-6**

**E-7**

**E-8**

**E-9**

**NAME** (Last, First, Middle Initial)

**EMPLID NUMBER**

**SIGNATURE OF SUPERVISOR**

[illegible]

REMARKS

RATING: DAMAGE CONTROLMAN	INIT	DATE
<p><b>A. ADMINISTRATION</b></p> <p><b>*5.A.01 Prepare</b> a written estimate for a minor shop project IAW MLC Standard Operating Procedures (MLCLANT SOP, MLCPAC SOP), and unit instructions.</p> <p><b>SupGuide:</b> Member will estimate the resources (personnel, tools &amp; material) required to complete a minor project which includes but are not limited to small renovations and/or carpentry, welding, or plumbing projects under \$3,000.</p> <p><b>5.A.02 Manage</b> a Preventive Maintenance program IAW Naval Engineering Manual, COMDTINST M9000.6 (series), chapter 081 and 090, Damage Control PMS Manual, TP2006 (series), CMPlus User Manual, Manufacturer's Technical Instructions, and unit specific equipment maintenance requirements.</p> <p><b>SupGuide:</b> The member will ensure that scheduled maintenance does not interfere with other departments or conflict with unit missions. Member will schedule and manage organizational level maintenance for a minimum of one quarter; ensuring resources (time, material, training, and special tools) are made available. Member will submit entries in CMPlus database.</p> <p><b>6.A.01 Verify</b> specifications for accuracy during an availability and provide comments IAW the Naval Engineering Manual, COMDTINST M9000.6 (series), chapter 090, MLC Standard Operating Procedures (MLCLANT SOP, MLCPAC SOP), MLC Specifications (LANT SPECS, PAC SPECS) and Organization and Operating Procedures Manual, Naval Engineering Division, Maintenance &amp; Logistic Command Pacific, MLCPACINST M9000.6 (series).</p> <p><b>SupGuide:</b> Member will review Specifications for any technical shortcomings. Review will include matching CSMP's to the statement of work and ensuring all interferences are identified within the specifications. If changes are needed, member will submit change recommendations to the appropriate authority. Member will validate specs by utilizing the CSMP/ECR file and MLC standard specifications. Member will utilize contract specifications to inspect the quality of contractor workmanship, verify adherence to the specifications as required in the contract, and document status/progress of work and prepare daily progress reports.</p>		
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<p><b>6.A.02 Submit</b> a written estimate for a major work project IAW the MLC Standard Operating Procedures, (MLCLANT SOP, MLCPAC SOP), Civil Engineering Manual, COMDINST M11000.11 (series), and Naval Engineering Manual, COMDTINST M9000.6 (series), chapter 090.</p> <p><b>SupGuide:</b> Member will estimate the materials, resources, and interferences required to complete a major work project. A major work project is defined as a project with an estimated cost exceeding \$3,000. Member will use the estimate as a basis for completing and submitting a SSMR or CSMP.</p> <p><b>7.A.01 Inspect</b> a structure IAW MLC LANT/PAC Instructions, Maintenance Assessment Guide for Coast Guard Housing, COMDTPUB 11101.21, MLC (KSE) Safety and Environmental Shore Station Checklist and Civil Engineering Manual, COMDTINST M11000.11 (series).</p> <p><b>SupGuide:</b> Member will use checklists provided in the above references to inspect Coast Guard owned housing or structures. Member will use the results of the inspection to schedule/contract maintenance and to develop an SSMR file.</p> <p><b>B. CARPENTRY</b></p> <p><b>*4.B.01 Repair</b> wallboard IAW Reader's Digest <i>New Complete Do-It-Yourself Manual</i>, Carpentry and Building Construction and Technical Guide: Practices for Respiratory Protection, COMDTINST M6260.2 (series).</p> <p><b>SupGuide:</b> Given the following types of wallboard defects and damages, the member will perform repairs using the appropriate wallboard tools and PPE.</p> <ul style="list-style-type: none"> <li>• Popped nails</li> <li>• Dented or scratched surface</li> <li>• Holes</li> <li>• Water damage</li> </ul> <p>Member will identify the different types of wallboard and installation procedures. Finished repairs will be smooth and ready for covering (paint, wallpaper) and have an acceptable appearance. Member will take the necessary precautions to minimize the spread of wallboard and joint compound dust in the area of the repairs</p> <p><b>Note:</b> Wallboard is also known as drywall and/or sheet rock.</p>		
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<p><b>*4.B.02 Perform</b> preventative maintenance on stationary power tools IAW Manufacturer's Technical Instructions, Reader's Digest <i>New Complete Do-It-Yourself Manual</i>, Carpentry and Building Construction, Occupational Safety and Health Standards 29 CFR Part 1910, and unit PMS.</p> <p><b>SupGuide:</b> Member will complete all PMS as per the manufacturer's instructions. All stationary power tools will be in good working condition or corrective actions taken for unserviceable tools (i.e.; frayed cords, unusual vibrations, cracked or damaged housings, smoked or burnt wiring smell, inoperable safety switches or guards). Member will ensure all fences and guards are properly installed and operate according to the above references. Member is not required to make electrical repairs.</p> <p><b>*4.B.03 Construct</b> a woodworking project IAW Carpentry and Building Construction and Reader's Digest, <i>New Complete Do-It-Yourself Manual</i>.</p> <p><b>SupGuide:</b> Given an illustration, sketch, plans, or an existing project to duplicate, the member will construct a woodworking project as required by unit needs. The member will utilize hand, portable, and stationary power tools as necessary to construct, join, and finish a woodworking project. Wood selection, size, use of glass, type of hardware, stain, and sealer will be at the discretion of the Supervisor. The project selected will incorporate the following woodworking fundamentals: edge joining, mitering, ripping, cross cutting, sanding, shaping, the use of adhesives and or fasteners, and staining or sealing. The project will be sound in construction, have an acceptable appearance, and may be free standing or wall mounted. Examples may include but are not limited to display cases, shelving units, or cabinets. The member will review the MSDS applicable to selected stains and sealers prior to their use.</p> <p><b>*4.B.04 Repair</b> an interior door IAW Reader's Digest, <i>New Complete Do-It-Yourself Manual</i>, Carpentry and Building Construction, and Manufacturer's Technical Instructions.</p> <p><b>SupGuide:</b> Member will perform repairs to residential interior doors utilizing necessary hand and portable power tools. Repairs will include but are not limited to:</p> <ul style="list-style-type: none"> <li>• Sticking or rubbing along one or more edges.</li> <li>• Door does not clear flooring.</li> <li>• Door springs open.</li> <li>• Latches/locksets/closures need adjusting or replacement.</li> </ul> <p>Upon completion of repairs the door and hardware shall operate smoothly, as intended by design and have an acceptable appearance.</p>		
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<p><b>*5.B.01 Install</b> an interior door IAW Carpentry and Building Construction and Manufacturer's Technical Instructions.</p> <p><b>SupGuide:</b> Member will install a residential interior door. Installation will include but is not limited to the following:</p> <ul style="list-style-type: none"> <li>• Cutting and installing the doorframe and trim.</li> <li>• Installing hardware (Locksets, hinges, automatic closures).</li> </ul> <p>Upon completion, the door must be level, plumb, open and close smoothly with all hardware operating as designed for intended use. Installation of a shipboard non-tight door or a residential pre-hung door also satisfies this performance qualification.</p> <p><b>*5.B.02 Construct</b> a wall IAW Carpentry and Building Construction.</p> <p><b>SupGuide:</b> Member shall frame a wall utilizing standard wood framing materials. Construction shall include all of the following:</p> <ul style="list-style-type: none"> <li>• Reading blueprints/sketches.</li> <li>• Laying-out and cutting materials to specifications.</li> <li>• Assembling the components of the wall.</li> <li>• Wallboard (install).</li> </ul> <p>Upon completion, the framed wall and components will be level and plumb, of sound construction, and fully functional for designed use.</p> <p><b>*5.B.03 Install</b> trim work IAW Carpentry and Building Construction.</p> <p><b>SupGuide:</b> Member will utilize available tools and equipment to cut and install interior trim components to include but not limited to; baseboards, doors, windows, and crown moldings. Installed trim will be free of gaps, firmly attached, and have acceptable appearance.</p>		
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<p><b>*6.B.01 Install</b> asphalt shingles IAW Reader's Digest <i>New Complete Do-It-Yourself Manual</i>, Carpentry and Building Construction, Occupational Safety and Health Standards 29 CFR Part 1910 and Manufacturer's Technical Instructions</p> <p><b>SupGuide:</b> Member will demonstrate the ability to evaluate the condition of an existing roof, determine the extent of any damage and perform repairs by one of the following methods:</p> <ul style="list-style-type: none"> <li>• Replace damaged shingles.</li> <li>• Overlay existing roof with additional shingles.</li> <li>• Remove and replace all existing shingles.</li> </ul> <p>Member will adhere to all safety precautions and personal protective equipment associated with roofing projects, in particular the use of ladders, scaffolding, and roof jacks.</p> <p>The installation of asphalt shingles for new roof construction satisfies the intent of this performance qualification.</p> <p><b>*6.B.02 Prepare</b> a detailed plan for a construction project IAW Carpentry and Building Construction.</p> <p><b>SupGuide:</b> Member will develop detailed plans for a construction project. Plans consist of a scaled drawing with a materials list. Plans will include floor, wall, roof, and stair and handrail details as necessary. Member will incorporate local building codes and acceptable industry practices in the plans. Examples of projects plans can include, but are not limited to: exterior decks, out buildings (sheds, garages, storage).</p> <p><b>C. CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL (CBR) WARFARE DEFENSE</b></p> <p><b>4.C.01 Test</b> for the presence of CBR contaminants IAW Naval Warfare Publication 3-20.31 (series), Naval Ships' Technical Manual, chapters 470 and 070, Manufacturer's Technical Instructions, and Unit CBR Bill.</p> <p><b>SupGuide:</b> In a simulated CBR environment the member will set up and operate unit CBR detection equipment to test for the presence of Chemical, Biological, and Radiological contaminants. Member must follow all safety precautions and procedures as outlined in the references, including proper donning of unit CBR personal protective equipment (PPE). Member will demonstrate the procedures for performing gross surveys, detailed monitoring, and proper marking and isolation of contaminated areas in accordance with the above references.</p>		
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<p><b>4.C.02 Perform</b> self-aid and buddy-aid for CBR contamination IAW Naval Warfare Publication 3-20.31 (series), Naval Ships' Technical Manual, chapters 470 and 070, Manufacturer's Technical Instructions, and Unit CBR Bill.</p> <p><b>SupGuide:</b> In a simulated CBR environment the member must recognize symptoms associated with exposure to CBR agents. The member will select and administer (<b>SIMULATED</b>) the correct self-aid treatment, which may include the use of Atropine, 2 Pam Chloride, NAPP, and CANA.</p> <p><b>5.C.01 Decontaminate</b> personnel and materiel IAW Naval Warfare Publication 3-20.31 (series), Naval Ships' Technical Manual, chapters 470 and 070, Manufacturer's Technical Instructions, and Unit CBR Bill.</p> <p><b>SupGuide:</b> In a simulated CBR environment, the member will set up and process personnel through a Contamination Control Area and Decontamination (CCA/Decon) station. Member will coordinate the procedures for simulated gross and detailed decontamination of unit materiel and equipment as outlined in the above references.</p> <p><b>D. COMPARTMENTATION</b></p> <p><b>4.D.01 Maintain</b> shipboard closures IAW Damage Control PMS Manual, TP2006, Naval Ships' Technical Manual, chapters 600, and 604, NAVSEA Publication S9169-AW-DCB-010 and NAVSEA web sites (see reference material for hyperlinks).</p> <p><b>SupGuide:</b> Member will inspect watertight closures for wear, ease of operation, and seal (chalk test), and make necessary adjustments, repairs, and replacement of components to return closures to operable watertight condition. Typical non-tight shipboard door problems include: sticking or rubbing along one or more edges, sprung open fittings, or latches/locksets/closures needing adjusting or replacement.</p> <p><b>5.D.01 Verify</b> material conditions of readiness IAW Naval Warfare Publication 3-20.31; Naval Engineering Manual, COMDTINST M9000.6 (series), chapter 079, Naval Ships' Technical Manual, chapter 079 vol 2, and unit DC Closure Log.</p> <p><b>SupGuide:</b> Member will ensure the specified material conditions of readiness are properly set inport, during normal underway steaming, and during General Emergency &amp; General Quarters. Member will review the unit's DC Closure Log for proper entries of fittings opened in violation of the prescribed material condition.</p>		
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<p><b>5.D.02 Review</b> Compartment Check-off Lists (CCOL's) IAW the Naval Engineering Manual, COMDTINST M9000.6 (series) chapter 079 and Naval Ships' Technical Manual, chapter 079 vol 2.</p> <p><b>SupGuide:</b> Member will verify unit CCOL's for format, verify compartment numbers, fitting numbers and classifications, the accessibility/location of CCOL. Member will ensure that CCOL's correspond with the unit DC plates and DC book, and submit changes and make corrections as appropriate.</p> <p><b>E. DAMAGE CONTROL</b></p> <p><b>4.E.01 Apply</b> each of the following pipe patches to a low pressure piping system IAW the Naval Ships' Technical Manual, chapter 079 vol 2 and Manufacturer's Technical Instructions.</p> <ul style="list-style-type: none"> <li>• Jubilee patch</li> <li>• Soft patch</li> <li>• Synthoglass</li> </ul> <p><b>SupGuide:</b> Given simulated damage to low pressure piping systems and a pipe patching kit, the member will demonstrate by action the procedures for applying each of the above pipe patches. Member must identify the characteristics, limitations and safety precautions associated with each type of patch.</p> <p><b>4.E.02 Fabricate</b> the following types of shoring IAW Naval Ships' Technical Manual, chapter 079 vol 2.</p> <ul style="list-style-type: none"> <li>• Mechanical</li> <li>• Wood</li> </ul> <p><b>SupGuide:</b> Given simulated damage, a shoring kit and shoring material, the member will layout, cut, and erect each type (I, H &amp; K-type) of shoring as applicable for the imposed damage. Member will demonstrate the use of wedges, shoals, and strongbacks to construct shoring. Member must identify the limitations and characteristics for each type of shoring and the safety associated with erecting shoring.</p>		
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<p><b>4.E.03 Dewater</b> a space using portable pumps/eductors IAW Naval Ships' Technical Manual, chapter 079 vol 2 and Manufacturer's Operating Instructions.</p> <p><b>SupGuide:</b> Member will demonstrate by action the ability to set up and operate portable dewatering pumps and eductors (portable and installed) assigned to their unit. Members will identify the characteristics, limitations, and safe-operating procedures associated with each pump/eductor. At a minimum the member will set up and operate a P-100 and utilize a portable eductor.</p> <p><b>4.E.04 Apply</b> each of the following plugs and patches to underwater hull damage IAW Naval Ships' Technical Manual, chapter 079 vol 2.</p> <ul style="list-style-type: none"> <li>• Box</li> <li>• Plate</li> <li>• Bucket</li> <li>• Plugs &amp; Wedges</li> <li>• Rags, Oakum</li> </ul> <p><b>SupGuide:</b> Given scenarios of simulated underwater hull damage along with a plugging and patching kit, the member will demonstrate by action the ability to make emergency repairs utilizing each of the plugs and patches listed above. Member will identify the characteristics, and limitations with plugging and patching.</p> <p><b>5.E.01 Restore</b> a vital piping system (Firemain) by isolating &amp; bypassing damage IAW Naval Ships' Technical Manual, chapters 555 vol 1 and 079 vol 2.</p> <p><b>SupGuide:</b> Member will demonstrate by action the ability to use DC plates to locate valves and isolate or bypass simulated damage to the minimum extent possible to a firemain system. Member will demonstrate by actions the procedures for rigging a temporary jumper between fire hose stations or by special jumper flanged connections to bypass a damaged section of firemain.</p>		
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<p><b>F. FIREFIGHTING</b></p> <p><b>4.F.01 Combat</b> each of the following classes of fire IAW Naval Ships' Technical Manual, chapters 077, 079 vol 2 and 555 vol 1, Naval Engineering Manual, COMDTINST M9000.6 (series), chapter 555 Firefighting, Naval Warfare Publication 3.20-31, Machinery Space Firefighting Doctrine for Class Bravo Fires, COMDTINST M9555.1 (series), Shipboard- Helicopter Operational Procedures Manual, COMDTINST M3710.2 (series), and unit specific Fire Doctrine.</p> <ul style="list-style-type: none"> <li>• Alpha</li> <li>• Bravo</li> <li>• Charlie</li> <li>• Delta</li> </ul> <p><b>SupGuide:</b> Given simulated class A, B, C and D fires, the member will demonstrate by action the appropriate procedures and use of equipment for combating each class of fire. Member will demonstrate the donning and use of Personal Protective Equipment (PPE, OBA, SCBA, FFG) associated with fire fighting, selection of the appropriate extinguishing agent/s, fixed or portable, (AFFF, CO2, PKP, Halon, water), effective fire fighting techniques (initial action, accessing the space, reporting, advancing on the fire, fire containment, reflash watch). Member will demonstrate how to set and maintain smoke and fire boundaries.</p>		
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<p><b>5.F.01 Perform</b> post fire procedures IAW Naval Ships' Technical Manual, chapters 074 vol 3, 079 vol 2 and 555 vol 1, Naval Engineering Manual, COMDTINST M9000.6 (series), chapters <b>555 Firefighting and 077 Safety</b>, Machinery Space Firefighting Doctrine for Class Bravo Fires, COMDTINST M9555.1 (series), Shipboard- Helicopter Operational Procedures Manual, COMDTINST M3710.2 (series), Naval Warfare Publication 3-20.31, and unit Fire Doctrine.</p> <p><b>SupGuide:</b> Under simulated post fire conditions of a shipboard fire, the member will perform the following post fire procedures for Class A, B, C and D fires as outlined in the above references:</p> <ul style="list-style-type: none"> <li>• <b>Overhaul:</b> Check for all possible areas of fire spread; incorporate the use of thermal imaging equipment to trace hidden fires and hot spots.</li> <li>• <b>Post-Fire Desmoking:</b> Desmoke using natural, portable, or installed ventilation.</li> <li>• <b>Atmospheric Testing:</b> Use unit's atmospheric testing equipment, test for the presence of oxygen, combustibles, and toxins.</li> <li>• <b>Dewatering:</b> Use unit portable and/or installed dewatering equipment to remove firefighting water from the space.</li> </ul> <p><b>6.F.01 Manage</b> the unit fire prevention program IAW (For Afloat Units) Naval Ships' Technical Manual, chapters 074 vol 1, 074 vol 3, 079 vol 2, 555 vol 1 and 670, Naval Warfare Publication 3-20.31, and unit instructions, (For Shore Units) Safety and Environmental Health Manual, COMDTINST M5100.47 (series).</p> <p><b>SupGuide:</b> Member will coordinate unit familiarization training with local fire departments, ensure MOU with fire department is on file and current; perform unit inspections to ensure good housekeeping and proper stowage of Hazmat and Hazwaste. Inspect ready fire fighting equipment (extinguishers and hose stations). Ensure safe hot work procedures are followed and general fire prevention awareness exists throughout the unit.</p>		
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<p><b>G. PLUMBING</b></p> <p><b>*4.G.01 Repair</b> piping systems IAW Naval Ships Technical Manual, chapter 505, Modern Plumbing, and Reader's Digest, <i>New Complete Do-It-Yourself Manual</i>.</p> <p><b>SupGuide:</b> Given an actual or simulated damaged/deteriorated section of pipe, the member will remove and replace the affected section of pipe. The member will demonstrate by action the ability to join PVC (solvent weld), steel (thread), and copper (solder) piping. Upon the completion of repairs, the system must operate as designed without leaks and returned to original condition. Demonstration of simulated repairs in a shop setting will satisfy the intent of this performance qualification. The task must include cutting and assembling several sections of piping and fittings to predetermined dimensions using the methods stated above.</p> <p><b>*4.G.02 Repair</b> conventional toilets, urinals, sinks, and shower fixtures IAW Modern Plumbing, and Reader's Digest, <i>New Complete Do-It-Yourself Manual</i>.</p> <p><b>SupGuide:</b> Given an actual or simulated malfunctioning fixture, the member will demonstrate by actions the ability to disassemble, inspect, diagnose, and replace worn or damaged components of one or more of the above plumbing fixtures. Upon completion the fixture will operate as designed.</p> <p><b>*4.G.03 Clear</b> (Unclog) drain, waste and vent (DWV) pipes IAW Modern Plumbing, Reader's Digest, <i>New Complete Do-It-Yourself Manual</i>, and Manufacturer's Technical Instructions.</p> <p><b>SupGuide:</b> Member will demonstrate by action the operation of drain clearing tools (snake, plunger, water ram, and auger). Member will demonstrate the use of blue prints to determine the location of and access to a clog in a piping system.</p> <p><b>*5.G.01 Install</b> plumbing fixtures IAW Modern Plumbing, Reader's Digest, <i>New Complete Do-It-Yourself Manual</i>, and Manufacturer's Technical Instructions.</p> <p><b>SupGuide:</b> Member will install at least one of the following fixtures as applicable at their unit: sink, toilet, urinal, or shower. Member will make connections to supply, drain, waste, and vent piping as required by local codes and acceptable industry practices. Upon completion, the fixtures will be securely installed at the appropriate level, fully functional, and have an acceptable appearance.</p>		
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<p><b>5.G.02 Repair</b> vacuum flush toilets and urinals IAW Manufacturer's Technical Instructions.</p> <p><b>Intent:</b> Member must diagnose symptoms of a malfunctioning vacuum flush assembly, replace/repair defective components and return the fixture to full operation.</p> <p><b>*5.G.03 Install</b> appliances IAW Modern Plumbing, Manufacturer's Technical Instructions, Equipment Tag-Out Procedures, COMDTINST 9077.1 (series) and Reader's Digest, <i>New Complete Do-It-Yourself Manual</i>.</p> <p><b>SupGuide:</b> Member will install at least one of the following appliances as applicable to their unit: Garbage disposal, Hot Water Heater (gas or electric), Dishwasher, or Ice Maker. Member will install associated supply, drain, waste, and vent piping and tubing as required. Member will demonstrate by action the appropriate electrical and gas safety procedures associated with installing appliances (Lockout/Tag out).</p> <p><b>*6.G.01 Design</b> the renovation or new installation of a piping system IAW Modern Plumbing, Reader's Digest, <i>New Complete Do-It-Yourself Manual</i>, and Naval Ships Technical Manual, chapter 505.</p> <p><b>SupGuide:</b> Given a plumbing renovation or new installation project for a piping system, the member will design an efficient plumbing system that will conserve materials, is easily serviced, and of adequate size for supply and drainage. Member will select the appropriate materials, fittings, and fixtures to ensure system design meets end use requirements. Local codes shall be researched and implemented into the design as required.</p> <p><b>H. WELDING &amp; CUTTING</b></p> <p><b>*4.H.01 Repair</b> a piping system using silver brazing process IAW Modern Plumbing, Naval Ships' Technical Manual, chapters 074 vol 1, 074 vol 3, and 505, Naval Engineering Manual COMDTINST M9000.6 (series), chapters <a href="#">074 Welding</a> &amp; <a href="#">077 Safety</a> and Technical Guide: Practices for Respiratory Protection COMDTINST M6260.2 (series).</p> <p><b>SupGuide:</b> The member will demonstrate by action the ability to silver braze pipe, fittings, and filler metals, determine the correct solders and fluxes required. Member will inspect and set up oxy-fuel equipment associated with silver brazing. Demonstrate the proper use of Personal Protective Equipment (PPE) and associated hot work safety procedures. Simulated repairs in a shop setting will satisfy the intent of this performance qualification. The member must be tasked with cutting and assembling several sections of piping and fittings to predetermined dimensions.</p>		
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<p><b>*4.H.02 Cut</b> mild steel using oxy- fuel equipment for the following tasks IAW Naval Ships' Technical Manual chapters 074 vol 1 and 074 vol 3, Technical Guide: Practices for Respiratory Protection COMDTINST M6260.2 (series), Naval Engineering Manual, COMDTINST M9000.6 (series), chapters <b>074 Welding and 077 Safety, and Modern Welding.</b></p> <ul style="list-style-type: none"> <li>• Remove Components</li> <li>• Fabrication</li> </ul> <p><b>SupGuide:</b> Member will demonstrate by action the ability to remove existing mild steel components (i.e. brackets, hardware, pad eyes) from decks, bulkheads, or overheads. The member will also demonstrate the skills to cut mild steel (i.e. mild steel plating, channel iron, I-beam, or angle iron) for project fabrication. The member will demonstrate proper equipment set up and selection for various cutting applications, equipment maintenance, safe hot work procedures, and personal protective equipment associated with oxy-fuel equipment and cutting.</p> <p><b>*4.H.03 Cut</b> metal using plasma equipment for the following tasks IAW Naval Ships' Technical Manual, chapters 074 vol 1 and 074 vol 3, Technical Guide: Practices for Respiratory Protection M6260.2 (series), Naval Engineering Manual, COMDTINST M9000.6 (series) chapters <b>074 Welding and 077 Safety and Modern Welding.</b></p> <ul style="list-style-type: none"> <li>• Remove Components</li> <li>• Fabrication</li> </ul> <p><b>SupGuide:</b> Member will demonstrate the skills with plasma equipment to remove metal components (i.e. brackets, hardware, pad eyes) from decks, bulkheads, or overheads and cut various metals for project fabrication. The member will demonstrate proper equipment set up and site preparations for various cutting applications, equipment maintenance, safe hot work procedures, and personal protective equipment associated with plasma cutting.</p>		
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<p><b>*4.H.04 Assemble</b> mild and stainless steel projects using the shielded metal arc-welding (SMAW) process IAW Naval Ships' Technical Manual, chapters 074 vol 1 and 074 vol 3, Technical Guide: Practices for Respiratory Protection M6260.2 (series), Naval Engineering Manual, COMDTINST M9000.6 (series) chapters <b>074 Welding</b> and <b>077 Safety and Modern Welding</b>.</p> <p><b>SupGuide:</b> Member will demonstrate by action the ability to weld (join) mild and stainless steel in all four positions (flat, horizontal, vertical, and overhead). The member will demonstrate proper equipment set up and site preparations for various SMAW applications, correct filler metal selection, equipment maintenance, safe hot work procedures, and personal protective equipment associated with SMAW equipment.</p> <p>Projects may include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• New fabrication (i.e.: brackets, shelving/storage units)</li> <li>• Minor structural repairs</li> <li>• Hull repairs above waterline</li> <li>• Handrail and stanchion replacements/fabrication</li> <li>• Stainless steel shoulder pins (water tight door)</li> </ul> <p>Welding horizontal pipe that is not rotated satisfies flat, vertical, and overhead positions.</p> <p><b>*5.H.01 Inspect</b> welds using non-destructive testing (NDT) methods IAW Naval Ships' Technical Manual, chapters 074 vol 1, 074 vol 2, and 074 vol 3; and Modern Welding.</p> <p><b>SupGuide:</b> Member shall perform one or more of the listed NDT methods as applicable with unit resources.</p> <ul style="list-style-type: none"> <li>• Visual Inspection</li> <li>• Penetrate Testing</li> <li>• Magnetic Particle</li> </ul> <p>Upon completion, member shall identify weld defects, causes, and recommend corrective actions to eliminate weld defects.</p>		
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RATING: DAMAGE CONTROLMAN	INIT	DATE
<p><b>*6.H.01 Fabricate</b> stainless steel projects using the gas tungsten arc-welding (GTAW) process IAW Naval Ships' Technical Manual, chapters 074 vol 1 and 074 vol 3, Technical Guide: Practices for Respiratory Protection M6260.2 (series), Naval Engineering Manual, COMDTINST M9000.6 (series) chapters <a href="#">074 Welding</a> and <a href="#">077 Safety</a> and Modern Welding.</p> <p><b>SupGuide:</b> Member will demonstrate by action the ability to use the GTAW process to weld (join) stainless steel in all four positions (flat, horizontal, vertical, and overhead) for project fabrication. The member will demonstrate proper equipment set up and site preparations for stainless steel GTAW applications, equipment maintenance, safe hot work procedures, and personal protective equipment associated with the GTAW process.</p> <p><b>*6.H.02 Fabricate</b> mild steel projects using the gas metal arc-welding (GMAW) process IAW Naval Ships' Technical Manual, chapters 074 vol 1 and 074 vol 3, Technical Guide: Practices for Respiratory Protection M6260.2 (series), Naval Engineering Manual, COMDTINST M9000.6 (series) chapters <a href="#">074 Welding</a> and <a href="#">077 Safety</a> and Modern Welding.</p> <p><b>SupGuide:</b> Member will demonstrate by action the ability to use the GMAW process to weld (join) mild steel in all four positions (flat, horizontal, vertical, and overhead), for project fabrication. The member will demonstrate proper equipment set up and site preparations for mild steel GMAW applications, equipment maintenance, safe hot work procedures, and personal protective equipment associated with the GMAW process.</p> <p>Welding horizontal pipe that is not rotated incorporates flat, vertical, and overhead positions.</p> <p><b>*6.H.03 Replace</b> mild steel watertight fittings using shielded metal arc welding (SMAW) IAW Naval Ships' Technical Manual Chapter 074 Vol 1 and 3, Technical Guide: Practices for Respiratory Protection, COMDTINST M6260.2 (series), Modern Welding, and NAVSEA Websites (see reference material for hyperlinks).</p> <p><b>SupGuide:</b> Member shall remove existing fitting, prepare surface area, and install new fitting using the SMAW process. Fitting to be replaced may be a WT door, hatch, or scuttle. Site preparation shall involve surface area to be welded, hot work procedures and personnel protection. Upon completion, fitting should pass necessary non-destructive test and operate smoothly.</p>		
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<p><b>GLOSSARY</b></p> <p><b>APPLY:</b> To put on.</p> <p><b>CLEAR:</b> To free from obstruction (Open).</p> <p><b>COMBAT:</b> to strive to reduce or eliminate.</p> <p><b>CONSTRUCT:</b> To assemble (welding, plumbing, or carpentry) materials and components of a project.</p> <p><b>CUT:</b> To divide material to a determined size or shape for use in repairs or construction or to remove material from a structure.</p> <p><b>DECONTAMINATE:</b> To remove or neutralize CBR contamination.</p> <p><b>DESIGN:</b> To plan by making preliminary sketch, outline, or drawing.</p> <p><b>DEWATER:</b> To remove water from a shipboard compartment.</p> <p><b>EXTINGUISH:</b> To put out.</p> <p><b>FABRICATE:</b> To design, layout, cut, and assemble a repair or construction of a project.</p> <p><b>INSPECT:</b> Examine, test, measure, or evaluate spaces or equipment for installation, operation, and performance in accordance with established industry standards, specifications, drawings, technical manuals, directives, policies, or other requirements.</p> <p><b>INSTALL:</b> To place a new component in position for service or use. (i.e. windows, doors, floorings, roof coverings, plumbing fixtures, and appliances.)</p> <p><b>MAINTAIN:</b> To preserve, fix, or keep in good repair and working order.</p> <p><b>MANAGE:</b> To handle or direct with a degree of skill or specialized knowledge. To exercise executive, administrative, and supervisory direction.</p> <p><b>PPE:</b> Personal Protective Equipment</p>		
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<p><b>PERFORM:</b> To begin and carry out through completion.</p> <p><b>REPAIR:</b> To restore to serviceable condition.</p> <p><b>REPLACE:</b> To remove an existing item and substitute with a new or workable item.</p> <p><b>RESTORE:</b> To put back into use, service, or return to original condition.</p> <p><b>REVIEW:</b> To examine a document or process for accuracy in content and/or format and report errors or updates to the author or controlling authority.</p> <p><b>SCHEDULE:</b> To develop a plan, based on time, for allocating resources, people and equipment, and scheduling deadline to accomplish assigned tasks.</p> <p><b>SUBMIT:</b> To prepare a report or form following a defined process and forwarding to the prescribed authority.</p> <p><b>TEST:</b> To check for the presence, type, and location of contaminants.</p> <p><b>VERIFY:</b> To confirm or establish the accuracy of.</p>		
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<p><b>REFERENCE MATERIAL (hyperlink provided where available)</b></p> <p>Carpentry and Building Construction – Glencoe/McGraw-Hill, Phone 1-800-334-7344 or 972-224-1111</p> <p>Civil Engineering Manual, COMDINST <a href="#">M11000.11</a> (series)</p> <p><a href="#">CMPlus</a> User Manual</p> <p>Damage Control PMS Manual, TP2006 (series)</p> <p>DC Closure Log</p> <p>Equipment Tag-Out Procedures, COMDTINST <a href="#">9077.1</a> (series)</p> <p>Machinery Space Firefighting Doctrine for Class Bravo Fires, COMDTINST <a href="#">M9555.1</a> (series)</p> <p>Maintenance Assessment Guide for Coast Guard Housing, COMDTPUB 11101.21</p> <p>Manufacturer's Technical Instructions</p> <p><a href="#">MLC (KSE) Safety and Environmental Shore Station Checklist</a></p> <p>MLC LANT/PAC Instructions</p> <p>MLC Specifications (<a href="#">LANT SPECS</a>, <a href="#">PAC SPECS</a> go to "Platform Support")</p> <p>MLC Standard Operating Procedures (<a href="#">MLCLANT SOP</a>, <a href="#">MLCPAC SOP</a>)</p> <p>Modern Plumbing - Goodheart-Wilcox Co., phone 1-800-323-0440 or 708-687-5000</p> <p>Modern Welding – Goodheart-Wilcox Co., phone 1-800-323-0440 or 708-687-5000</p> <p>Naval Engineering Manual, COMDTINST <a href="#">M9000.6</a> (series)</p> <p>Naval Ships' Technical Manual, chapters <a href="#">070</a>, <a href="#">074 vol 1</a>, <a href="#">074 vol 2</a>, <a href="#">074 vol 3</a>, <a href="#">077</a>, <a href="#">079 vol 2</a>, <a href="#">470</a>, <a href="#">505</a>, <a href="#">555 vol 1</a>, <a href="#">600</a>, <a href="#">604</a>, and <a href="#">670</a></p>		
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<p>Naval Warfare Publication 3-20.31 (series)</p> <p>NAVSEA web sites concerning watertight enclosures at:  <a href="http://www.navsea.navy.mil/sea05z7">http://www.navsea.navy.mil/sea05z7</a> &amp;  <a href="http://www.navsea.navy.mil/03w/doorswi1.pdf">http://www.navsea.navy.mil/03w/doorswi1.pdf</a></p> <p>NAVSEA Publication <a href="#">S9169-AW-DCB-010</a></p> <p>Occupational Safety and Health Standards 29 CFR Part <a href="#">1910</a></p> <p>Organization and Operating Procedures Manual, Naval Engineering Division, Maintenance &amp; Logistic Command Pacific, <a href="#">MLCPACINST M9000.6 (series)</a>.  Go to "SOPs" for MLC Instructions.</p> <p>Reader's Digest <i>New Complete Do-It-Yourself Manual</i>, ISBN 0-89577-378-3</p> <p>Safety and Environmental Health Manual, COMDTINST <a href="#">M5100.47</a> (series)</p> <p>Shipboard- Helicopter Operational Procedures Manual, COMDTINST <a href="#">M3710.2</a> (series)</p> <p>Technical Guide: Practices for Respiratory Protection, <a href="#">COMDTINST 6260.2(series)</a></p> <p>Unit CBR Bill</p> <p>Unit Specific PMS</p> <p>Unit Fire Doctrine.</p> <p>Unit Specific Equipment Maintenance Requirements.</p> <p>The use of the Internet to research building, plumbing, and welding codes is highly encouraged. There are numerous web sites that provide guidance for acceptable building, construction, plumbing, and welding industry practices.</p> <p>Additional information for Damage Controlman and their supervisors can be found on the following websites:</p> <p>MCPOCG's Website accessible at  <a href="http://www.uscg.mil/hq/mcpocg/default.htm">http://www.uscg.mil/hq/mcpocg/default.htm</a></p> <p>MLCLANT/PAC, your servicing CEU, Afloat Training Groups, and Area Training Teams are also excellent sources of information for Damage Control related information.</p>		
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